

SCORE Search Results Details for Application 09961086 and Search Result 20090302_142117_us-09-961-086a-1.rapbn.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
Page	List	Overview	FAQ	Suggestions

This page gives you Search Results detail for the Application 09961086 and Search Result 20090302_142117_us-09-961-086a-1.rapbn.

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GenCore version 6.3

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OM protein - protein search, using sw model

Run on: March 3, 2009, 04:35:41 ; Search time 2 Seconds
(without alignments)
993.088 Million cell updates/sec

Title: US-09-961-086A-1
Perfect score: 3352
Sequence: 1 MSSSNVEVFIPVSQGNTNGF.....MIVIFLTIAYLKLLFLKKYS 655

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 16399 seqs, 3032329 residues

Total number of hits satisfying chosen parameters: 16399

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA_New:*
1: /ABSS/Data/CRF/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
2: /ABSS/Data/CRF/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
3: /ABSS/Data/CRF/ptodata/2/pubpaa/US12_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query		Length	DB ID	Description
		Match				
1	602	18.0	1511	2	US-11-982-010-1020	Sequence 1020, Ap
2	602	18.0	1511	2	US-11-982-274-1020	Sequence 1020, Ap

3	163	4.9	808	2	US-11-769-326-53	Sequence 53, Appl
4	86	2.6	509	2	US-11-982-010-1472	Sequence 1472, Ap
5	86	2.6	509	2	US-11-982-274-1472	Sequence 1472, Ap
6	85	2.5	573	3	US-12-089-646-8	Sequence 8, Appli
7	83.5	2.5	500	3	US-12-171-923-18	Sequence 18, Appl
8	82.5	2.5	852	3	US-12-177-925-4	Sequence 4, Appli
9	82.5	2.5	2513	2	US-11-982-010-1262	Sequence 1262, Ap
10	82.5	2.5	2513	2	US-11-982-274-1262	Sequence 1262, Ap
11	82	2.4	479	3	US-12-135-071A-18	Sequence 18, Appl
12	82	2.4	513	2	US-11-982-010-1221	Sequence 1221, Ap
13	82	2.4	513	2	US-11-982-274-1221	Sequence 1221, Ap
14	81.5	2.4	322	3	US-12-169-527-2468	Sequence 2468, Ap
15	81.5	2.4	325	2	US-11-982-010-1636	Sequence 1636, Ap
16	81.5	2.4	325	2	US-11-982-274-1636	Sequence 1636, Ap
17	81.5	2.4	878	3	US-12-169-527-70	Sequence 70, Appl
18	81.5	2.4	1193	3	US-12-210-770-27	Sequence 27, Appl
19	80.5	2.4	1193	3	US-12-210-770-25	Sequence 25, Appl
20	80	2.4	359	2	US-11-982-010-1205	Sequence 1205, Ap
21	80	2.4	359	2	US-11-982-274-1205	Sequence 1205, Ap
22	80	2.4	810	2	US-11-982-010-1413	Sequence 1413, Ap
23	80	2.4	810	2	US-11-982-274-1413	Sequence 1413, Ap
24	79.5	2.4	488	3	US-12-135-071A-21	Sequence 21, Appl
25	79.5	2.4	535	2	US-11-982-010-1949	Sequence 1949, Ap
26	79.5	2.4	535	2	US-11-982-274-1949	Sequence 1949, Ap
27	79.5	2.4	1885	3	US-12-181-855A-22	Sequence 22, Appl
28	78.5	2.3	480	3	US-12-135-071A-15	Sequence 15, Appl
29	78.5	2.3	1382	3	US-12-163-889-2	Sequence 2, Appli
30	77.5	2.3	324	2	US-11-982-010-1909	Sequence 1909, Ap
31	77.5	2.3	324	2	US-11-982-274-1909	Sequence 1909, Ap
32	77.5	2.3	1579	3	US-12-135-911-2	Sequence 2, Appli
33	77	2.3	563	2	US-11-982-010-1510	Sequence 1510, Ap
34	77	2.3	563	2	US-11-982-274-1510	Sequence 1510, Ap
35	76.5	2.3	427	3	US-12-218-975-1579	Sequence 1579, Ap
36	76.5	2.3	990	3	US-12-169-527-72	Sequence 72, Appl
37	76	2.3	351	2	US-11-982-010-1745	Sequence 1745, Ap
38	76	2.3	351	2	US-11-982-274-1745	Sequence 1745, Ap
39	76	2.3	572	3	US-12-218-975-1639	Sequence 1639, Ap
40	76	2.3	1057	3	US-12-169-527-90	Sequence 90, Appl
41	75.5	2.3	579	3	US-12-218-975-544	Sequence 544, App
42	75.5	2.3	579	3	US-12-218-975-1432	Sequence 1432, Ap
43	75.5	2.3	766	2	US-11-982-010-1951	Sequence 1951, Ap
44	75.5	2.3	766	2	US-11-982-274-1951	Sequence 1951, Ap
45	75.5	2.3	1609	2	US-11-928-477-75	Sequence 75, Appl

ALIGNMENTS

RESULT 1

US-11-982-010-1020

; Sequence 1020, Application US/11982010

; Publication No. US20090044297A1

; GENERAL INFORMATION

; APPLICANT: Adams, Thomas R

; APPLICANT:Andersen, Scott E.

; APPLICANT:Cao, Yongwei

; APPLICANT:Conner, Timothy W.

; APPLICANT:Dotson, Stanton B.
; APPLICANT:Edgerton, Michael D
; APPLICANT:Heck, Gregory R.
; APPLICANT:Kovalic, David K.
; APPLICANT:La Rosa, Thomas J.
; APPLICANT:Lee, Gary
; APPLICANT:Liu, Jingdong
; APPLICANT:Lutfiyya, Linda L.
; APPLICANT:Nelson, Donald E.
; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52016)A
; CURRENT APPLICATION NUMBER: US/11/982,010
; CURRENT FILING DATE: 2008-10-18
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 10/438,246
; PRIOR FILING DATE: 2003-05-14
; PRIOR APPLICATION NUMBER: 10/155,881
; PRIOR FILING DATE: 2002-05-22
; PRIOR APPLICATION NUMBER: 09/816,660
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: 09/733,089
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: 09/565,306
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/132,860
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 10/424,599
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 09/985,678
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 09/304,517
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 09/874,708
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 60/211,750
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/684,016
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: 10/425,114
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 10/219,999
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/312,544
; PRIOR FILING DATE: 2001-08-15

```
Query Match      18.0%;  Score 602;  DB 2;  Length 1511;
Best Local Similarity  28.5%;  Pred. No. 3.2e-48;
Matches 187;  Conservative 121;  Mismatches 257;  Indels 92;  Gaps 24;
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http://es.ScoreAccessWeb/GetItem.action?AppId=0996108..._142117_us-09-961-086a-1.rapbn&ItemType=4&startByte=0 (4 of 24)3/11/2009 3:09:58 PM

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; Sequence 1020, Application US/11982274
; Publication No. US20090049573A1
; GENERAL INFORMATION
; APPLICANT: Adams, Thomas H
; APPLICANT:Dotson, Stanton B.
; APPLICANT:Edgerton, Michael D
; APPLICANT:Lee, Gary
; APPLICANT:Nelson, Donald E.
; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52596)A
; CURRENT APPLICATION NUMBER: US/11/982,274
; CURRENT FILING DATE: 2008-10-04
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1020
; LENGTH: 1511
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-11-982-274-1020
```

Qy	35	AVLSFHNICYRVKLKSGFLPCRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVL	93
		: : : : : : : : : : : : : : : : :	
Db	867	AIFHWRNLCYEVQIKA-----ETRRILNNVDGWVKPGTLTALMGASGAGKTTLLDCL	918
Qy	94	AARKDPSGLSGDVLINGAPRPANFKCNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMT	153
		: : : : : : : : : : : ::	
Db	919	AERTVMGVITGDILVNGIPRDKSFPRSIGYCQQQDLHLKTATVRESLRF SAYLRQPAEVS	978
Qy	154	NHEKNERINRVIOELGLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSIL-FLDEP	212

```

      ||| : ||: | ::| ||: ||      |:: :||| :||:| | | :| |||||
Db      979 IEEKNRYVEEVIKILEMEKYADAVVGVAG-EGLNVEQRKRLTIGVELTAKPKLLVFLDEP 1037

Qy      213 TTGLDSSSTANAVLLLLKRMASKQGRTIIFSIHQPRYSIFKLFDSLTL-ASGRMLMFHGPAQ 271
      |:|||| || :: |:|::: |: |: :|||| : : || | : |: :: |
Db      1038 TSGLDSQTAWASICQLMKKLANHGQAILCTIHQPSAILMQEFDRLLFMQRGGKTVYFGDLG 1097

Qy      272 EA----LGYFESAGYH-CEAYNNPADFFLDIINGDSTAVALNREEDFKATEIIEPSKQDK 326
      | : |||| | | | | |||:: |::: | : :|:
Db      1098 EGCKTMIDYFESHGAHKCPADANPAEWMLEV---GAAPGSHANQDY----- 1141

Qy      327 PLIEKLAEIYVNSSFYKETKAELHQLSGG-EKKKKITVFKE-ISYTTSFCHQLRWVSKRS 384
      |:: || |: ::|| : || || :: :: | :| : || |
Db      1142 -----YEVWRNSEEYRAVQSELDWMERELPKKGSITAAEDKHEFSQSIIYQTKLVSIRL 1195

Qy      385 FKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKNDSTGIQNRAGVLFFLTNNQCFSSVSA 444
      |: :| :: |:|: | || :| |::: :| | |: :
Db      1196 FQQYWRSPDYLSKFIILTIFNQLFIGFTFFKAGTSLQGLQNQMLAVFMFTV--IFNPILQ 1253

Qy      445 VEL--FVVEKKLF-IHEYISGYRVSSYFLGKLLSDLLPMTMLPSIIFTCIVYFMLGLKP 501
      | || :: |: | | : |: :: : :| :| | | |: :|
Db      1254 QYLPSFVQQRDLYEARERPSRTFSWISFIFAQIFVE-VPWNILAGTIAYFIYYYYPIGFYS 1312

Qy      502 KADAFFVM----MFTLMMVAY--SASSMALAIAAGQSVSVATLLMTICFVFMFMIFSGL 554
      | | : :| | |: || | : : | | | :: | : | |:
Db      1313 NASAAGQLHERGALFWLFSCAFYVYVGSMLLVISFNQVAESAANLASLLFTMSLSFCGV 1372

Qy      555 LVNLTTIAS-WL-----SWLQYF-----SIPRYGFTALQHNE 585
      : : : |: | || | | | | | | |: |
Db      1373 MTTPSAMPRFWIFMYRVSPLTYFIQALLAVGVANVDVKCADYELLEFTPPSGMTTCGQYME 1432

Qy      586 ----FLGQNFCPGLNATGNNPCNYA-TCTGEEYLVKQGIDLSPWGLWKNHVALACMI 637
      : ||| : |: : | :|| | | :|: | |
Db      1433 PYLQLAKTGYLTDENAT--DTCSFCQISTTNDYLANVNSFYSE--RWRNYGIFICYI 1485

```

RESULT 3

US-11-769-326-53

```

; Sequence 53, Application US/11769326
; Publication No. US20090047277A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Jennifer Lynne
; TITLE OF INVENTION: RECOMBINANT IL-9 ANTIBODIES AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 10271-112-999
; CURRENT APPLICATION NUMBER: US/11/769,326
; CURRENT FILING DATE: 2007-07-02
; PRIOR APPLICATION NUMBER: US/10/823,253A
; PRIOR FILING DATE: 2004-04-12
; PRIOR APPLICATION NUMBER: 60/477,797
; PRIOR FILING DATE: 2003-06-10
; PRIOR APPLICATION NUMBER: 60/462,259
; PRIOR FILING DATE: 2003-04-11
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 808

```

; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-769-326-53

Query Match 4.9%; Score 163; DB 2; Length 808;
Best Local Similarity 25.4%; Pred. No. 1.5e-07;
Matches 63; Conservative 48; Mismatches 97; Indels 40; Gaps 11;

Qy 63 ILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCNS 121
:| : :|| :|::||| |||:: :| | :| :|::| | | :
Db 580 VLQGLTFTLRPG EVTALVGPNGSGKSTVAALLQNL YQPTG--GQLLLDGKPLP---QYEH 634

Qy 122 GY-----VVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQE----- 167
| | : | | :||| : : :| | | :
Db 635 RYLHRQVA AVGQEPQVFGR-SLQENIAYG-----LTQKPTMEEITAAAVKSGAHSFI 685

Qy 168 LGLDKVADSKV---GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAV 224
|| : |::| | :| :||| : : :| | :| || :| :|::: |
Db 686 SGLPQGYDTEVDEAGSQ----LSGGQRQAVALARALIRKPCVLILDDATSALDANSQLQV 741

Qy 225 LLLLKRMSKQGRTIIFS IHQPRYSIFKLFD SLTLLASGRLMFHHGPAQEALGYFESAGYHC 284
|| : : : | | | : : | : | | : | | : : | | :
Db 742 EQLLYESPERYSRSVLLITQ-HLSLVEQADHILFLEGGAIREGGTHQQLM---EKKGCYW 797

Qy 285 EAYNNPAD 292
|||
Db 798 AMVQAPAD 805

RESULT 4
US-11-982-010-1472
; Sequence 1472, Application US/11982010
; Publication No. US20090044297A1
; GENERAL INFORMATION
; APPLICANT: Adams, Thomas R
; APPLICANT:Andersen, Scott E.
; APPLICANT:Cao, Yongwei
; APPLICANT:Conner, Timothy W.
; APPLICANT:Dotson, Stanton B.
; APPLICANT:Edgerton, Michael D
; APPLICANT:Heck, Gregory R.
; APPLICANT:Kovalic, David K.
; APPLICANT:La Rosa, Thomas J.
; APPLICANT:Lee, Gary
; APPLICANT:Liu, Jingdong
; APPLICANT:Lutfiyya, Linda L.
; APPLICANT:Nelson, Donald E.
; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52016)A
; CURRENT APPLICATION NUMBER: US/11/982,010
; CURRENT FILING DATE: 2008-10-18
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02

```
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 10/438,246
; PRIOR FILING DATE: 2003-05-14
; PRIOR APPLICATION NUMBER: 10/155,881
; PRIOR FILING DATE: 2002-05-22
; PRIOR APPLICATION NUMBER: 09/816,660
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: 09/733,089
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: 09/565,306
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/132,860
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 10/424,599
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 09/985,678
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 09/304,517
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 09/874,708
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 60/211,750
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/684,016
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: 10/425,114
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 10/219,999
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/312,544
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 60/324,109
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 11/491,125
; PRIOR FILING DATE: 2006-08-24
; PRIOR APPLICATION NUMBER: 60/144,351
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/163,469
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: 60/177,203
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: 60/184,162
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 09/620,392
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1472
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
```


US-11-982-010-1472

Query Match		2.6%;	Score 86;	DB 2;	Length 509;
Best Local Similarity		18.8%;	Pred. No. 1.2;		
Matches		73;	Conservative	53;	Mismatches 126; Indels 136; Gaps 17;
Qy	333	AEIYVNSSFYKETKAELHQLSGGEKKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLGNP	392		
		:: :: : : : :			
Db	6	AERAANNATALETQSSPEDLSQPSPLRKIIISVASIAAGVQFGWALQLSLLTPYIQLLGIP	65		
Qy	393	Q-----ASIAQIIIVTVVLG-----LVIGAIY-----	413		
		: : : :::			
Db	66	HKWSSYMWLCGPISGMIVQPIVGYHSDRCESRFGRRRPFIAAGVALVAVSVFLIGFAADM	125		
Qy	414	---FGLKNDSTGIQNRAGVLFFLT-----TNQ	437		
		: : :			
Db	126	GHSFGDKLENK-VRTRA-IIIFLTGFWFLDVANNTLQGPCRAFLADLAAGDAKKTRVANA	183		
Qy	438	CFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLPMTMLPSIIFTCIVYFML	497		
		: : : : :			
Db	184	CFSFFMAVG-----NVLGYAAGSY-----TNLHKMFPTMTKA----CDIY-CA	222		
Qy	498	GLKPKADAFFVMMFTLMMVAYSA---SSMALAIAAGQSVVSVATLLMTICFVMMIFSG	553		
		: : :: : : :			
Db	223	NLK---TCFFLSITLLLIVTFSSLWYVKDKQWSPQGDKEEKTSSL-----FFFGEIFGA	274		
Qy	554	-----LLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGNNPCNY	605		
		::: : : : : : : : : :			
Db	275	VRHMKRPMVMLLIVTVINWIAWFPFI-----LYDTDWMGREVYGG-NSDGDE----	320		
Qy	606	ATCTGEEYLVKQGIDLSPWGLWKNHVAL	633		
		: : :			
Db	321	----RSKKLYDQGVQAGALGLMFNSILL	344		

RESULT 5

US-11-982-274-1472

; Sequence 1472, Application US/11982274
; Publication No. US20090049573A1
; GENERAL INFORMATION
; APPLICANT: Adams, Thomas H
; APPLICANT:Dotson, Stanton B.
; APPLICANT:Edgerton, Michael D
; APPLICANT:Lee, Gary
; APPLICANT:Nelson, Donald E.
; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52596)A
; CURRENT APPLICATION NUMBER: US/11/982,274
; CURRENT FILING DATE: 2008-10-04
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08

; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1472
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-982-274-1472

Query Match 2.6%; Score 86; DB 2; Length 509;
Best Local Similarity 18.8%; Pred. No. 1.2;
Matches 73; Conservative 53; Mismatches 126; Indels 136; Gaps 17;

Qy	333	AEIYVNSSFYKETKAELHQLSGGEKKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLGNP	392
		: : : : : : : : :	
Db	6	AERAANNATALETQSSPEDLSQPSPLRKIIISVASIAAGVQFGWALQLSLLTPYIQLLGIP	65
Qy	393	Q-----ASIAQIIVTVVLG-----LVIGAIY-----	413
		: : : : : :	
Db	66	HKWSSYMWLCGPISGMIVQPIVGYHSDRCESRFGRRRPFIAAGVALVAVSVFLIGFAADM	125
Qy	414	---FGLKNDSTGIQNRAGVLFFLT-----TNQ	437
		: : : :	
Db	126	GHSFGDKLENK-VRTRA-IIIFLTGFWFLDVANNTLQGPCRAFLADLAAGDAKKTRVANA	183
Qy	438	CFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLPMTMLPSIIFTCIVYFML	497
		: : : : : :	
Db	184	CFSFFMAVG-----NVLGYAAGSY-----TNLHKMFPTMTKA----CDIY-CA	222
Qy	498	GLKPKDAFFVMMFTLMMVAYS-----SSMALAIAAGQSVVSVATLLMTICFVMMIFSG	553
		: : : : : : : : : :	
Db	223	NLK---TCFFLSITLLLVITFSSLWYVKDKQWSPPQGDKEEKTSSL-----FFFGEIFGA	274
Qy	554	-----LLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGNNPCNY	605
		: : : : : : : : : : : : :	
Db	275	VRHMKRPMVMLLIVTVINWIAWFPFI-----LYDTDWMGREVYGG-NSDGDE----	320
Qy	606	ATCTGEEYLVKQGIDLSPWGLWKNHVAL	633
		: : :	
Db	321	----RSKKLYDQGVQAGALGLMFNSILL	344

RESULT 6
US-12-089-646-8
; Sequence 8, Application US/12089646
; Publication No. US20090042219A1
; GENERAL INFORMATION
; APPLICANT: MORIYAMA et al.
; TITLE OF INVENTION: Novel Transporter Protein in Mammal and Utilization of the Same
; FILE REFERENCE: 14119.105012
; CURRENT APPLICATION NUMBER: US/12/089,646
; CURRENT FILING DATE: 2008-04-09
; PRIOR APPLICATION NUMBER: PCT/JP2006/320409
; PRIOR FILING DATE: 2006-10-12
; PRIOR APPLICATION NUMBER: JP 2005-300851
; PRIOR FILING DATE: 2005-10-14
; PRIOR APPLICATION NUMBER: JP 2006-156458

; PRIOR FILING DATE: 2006-06-05
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 573
; TYPE: PRT
; ORGANISM: mouse
US-12-089-646-8

Query Match 2.5%; Score 85; DB 3; Length 573;
Best Local Similarity 21.9%; Pred. No. 1.8;
Matches 88; Conservative 54; Mismatches 141; Indels 118; Gaps 21;

Qy	304	AVALNREEDFKATEIIEPSKQDKPLIEKLAIEYVNSSFYKETKAELHQLSGGEKKKKITV	363
		: : : : : :	
Db	141	AIFLNTE-----RLLLLLRQD-PDVARLAQVYVMICIPALPAAFLFQL-----	182
Qy	364	FKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLV-IGAIYFGLKNDSTG	422
		: : : : : : :	
Db	183	-----QTRYLQSQGI-----IMPQVIVGIAANVVNVGMNAFLLYALDLG	221
Qy	423	IQNRAGVLFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRV-----SSYFLGKLLSD	477
		: : : : : : : :	
Db	222	V---VGSAWANTTSQFFLS-ALLFLYVWWKRIHIHTW-GGWTRECFQEWSSY-----	268
Qy	478	LLPMTMLPSIIFTCIVY-----FMLGLKPKAD-AFFVMMFTLMMVAYS-----ASS	522
		: : : : : : : :	
Db	269	--TRLAIPSMFMVCIEWWTFEIGTFLAGLVNVTTELGAQAVIYELASVAYMVPFGFGVAAS	326
Qy	523	MAL--AIAAG---QSVVSVATLLMT--ICFVEMMIFSGLL-----VNLTTIASWLSW	567
		: : : : : : : :	
Db	327	VRVGNALGAGNADQARCSCTTVLLCAGVCALLVGILLAALKDVVAYIFTNDKDIISLVSQ	386
Qy	568	LQYFSIPRYGFTALQHNEFLGQNFPCG-----LNATGNNPCNYATCTGEEYL	614
		: : : :	
Db	387	VMPIFAPFHLFDAL-----AGTCGGVLRGTGKQKIGAVLNTIGYYGFGFPIGVSLMFA	439
Qy	615	VKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS	655
		: : : : :	
Db	440	AKLGI----IGLWAGLI----VCVSFQAFSYLIYILRTNWS	472

RESULT 7
US-12-171-923-18
; Sequence 18, Application US/12171923
; Publication No. US20090047295A1
; GENERAL INFORMATION
; APPLICANT: BERRY, DAVID ARTHUR
; APPLICANT:DEVROE, ERIC JAMES
; APPLICANT:AFEYAN, NOUBAR BOGHOS
; APPLICANT:CHEVALIER, BRETT
; APPLICANT:REDDY, SASHANK KURAPATI
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REDUCING STEMNESS IN ONCOGENESIS
; FILE REFERENCE: LSC-001
; CURRENT APPLICATION NUMBER: US/12/171,923
; CURRENT FILING DATE: 2008-07-11
; PRIOR APPLICATION NUMBER: 60/949,409

; PRIOR FILING DATE: 2007-07-12
; NUMBER OF SEQ ID NOS: 1126
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 18
; LENGTH: 500
; TYPE: PRT
; ORGANISM: Homo sapiens
US-12-171-923-18

Query Match 2.5%; Score 83.5; DB 3; Length 500;
Best Local Similarity 18.3%; Pred. No. 2;
Matches 65; Conservative 61; Mismatches 151; Indels 79; Gaps 16;

Qy	65	SNINGIMKPGLNAILGPTGGG--KSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN--	120
		:: : : : : : : : :	
Db	51	THANGLDSPPMFAGAG-LGGTPCRKSYEDCASGIMEDSAIKCEYMLNAIPKRLCLVCGDI	109
Qy	121	-SGY---VVQDDVVMGTL--TVRENLFQSAALRLATTMTNHEKNE-----RINRV	164
		: : : : : : : : :	
Db	110	ASGYHYGVASCEACKAFFKRTIQGNIEYSCPATNECEITKRRRKSCQACRFMKCLKVGM	169
Qy	165	IQELGLDKV-----ADSKVGTQFIRGVSGGERKRTS--IGMELITDPSILFLDEP	212
		: : : : : : : : : : :	
Db	170	KEGVRLLDRVRGGRQKYKRRLDSESSPYLSLQISPPAKKPLTKIVSYLLVAEPDKLYA-MP	228
Qy	213	TTGLDSSTANAVLLLLKRMSKQGRITII-FSIHQPRYSIFKLFDSLTLASG--RLMFHGP	269
		: : : : : : : : : : : : :	
Db	229	PPGMPEGDIKALTTLCDLADRELVVIIGWAKHIPGFSSLSLGDQMSLLQSAWMEILILGI	288
Qy	270	AQEALGYFESAGYHCEAYNNPADFFLDIINGDSTAVALNREEDFKATEIIEPSKQDKPLI	329
		: : : : : : : : : : :	
Db	289	VYRSLPYDDKLVY-----AEDYIMD-----EEHSRLAGLLELYRAILQLV	328
Qy	330	EKLAEIYVNSSFYKETKAELHQLSGGEKKKKITVFKEISYTTS---FCHQLRWVSK	382
		: : : : : : : :	
Db	329	RR-----YKKLKE-----KEEFVTLKALALANSDSMYIEDLEAVQK	365

RESULT 8
US-12-177-925-4
; Sequence 4, Application US/12177925
; Publication No. US20090047736A1
; GENERAL INFORMATION
; APPLICANT: ADLER, JON ELLIOT
; APPLICANT:LI, XIAODONG
; APPLICANT:STASZEWSKI, LENA
; APPLICANT:O'CONNELL, SHAWN
; APPLICANT:ZOZULYA, SERGEY
; TITLE OF INVENTION: HUMAN T1r2 NUCLEIC ACID SEQUENCES AND POLYPEPTIDES
; FILE REFERENCE: 67824.428926
; CURRENT APPLICATION NUMBER: US/12/177,925
; CURRENT FILING DATE: 2008-10-06
; PRIOR APPLICATION NUMBER: 10/725,284
; PRIOR FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: 10/035,045
; PRIOR FILING DATE: 2002-01-03
; PRIOR APPLICATION NUMBER: 60/259,227

; PRIOR FILING DATE: 2001-01-03
; PRIOR APPLICATION NUMBER: 60/284,547
; PRIOR FILING DATE: 2001-04-19
; NUMBER OF SEQ ID NOS: 24
; SEQ ID NO 4
; LENGTH: 852
; TYPE: PRT
; ORGANISM: Homo sapiens
US-12-177-925-4

Query Match 2.5%; Score 82.5; DB 3; Length 852;
Best Local Similarity 21.1%; Pred. No. 5.8;
Matches 70; Conservative 39; Mismatches 110; Indels 113; Gaps 14;

Qy	372	SFCHQLRWVSKRS---FKN-----LLGNPQASIAQIIIVTVVLGLVIGAI-YFGLKNDSTG	422
		: : : : :::: : :	
Db	539	TFCGQDEWSPERSTRCFRRRSRFLAWGEPVLLLLLLLLSLALGLVLAALGLFVHHRDSPL	598
Qy	423	IQNRAG-----VLFF-----LTTNQCFSS--VSAVE	447
		: : :	
Db	599	VQASGGPLACFGLVCLGLVCLSVLLFPQPSPARCLAQQPLSHLPLTGCLSTLFLQAAEI	658
Qy	448	FV-VEKKLFIHEYISGYRVSSYFLGKLLSDLLPMTMLPSIIFTCIVYFMLGLKPKADAF	506
		: : : : : : : : : :	
Db	659	FVESELPLSWADRLSGCLRGPWAWLVVLLAMLVEVAL-----CTWYLVAFPPEVVD	710
Qy	507	FVMMFTLMMV---AYSASSMALAIAAGQSVVSVA-----TLLMTI	543
		: : : : : :	
Db	711	WHMLPTEALVHCRTSRVSEGLAHATNATLAFLCFLGTFLVRSQPGCYNRARGLTFAMLA	770
Qy	544	CFVFMIFSGLLVNLTTI-----ASWLSWLQYFSIPRYGFTALQHNEFLGQNFC	592
		: : : : :	
Db	771	YFITWVSFVPLLANVQVVLRAVQMGALLLCVLGILAAFHLPFCYLLMRQ-----	820
Qy	593	PGLN-----ATGNNPCNYATCTGEE	612
		:	
Db	821	PGLNTPEFFLGGGPGDAQGQNDGN---TGNQ	848

RESULT 9
US-11-982-010-1262
; Sequence 1262, Application US/11982010
; Publication No. US20090044297A1
; GENERAL INFORMATION
; APPLICANT: Adams, Thomas R
; APPLICANT:Andersen, Scott E.
; APPLICANT:Cao, Yongwei
; APPLICANT:Conner, Timothy W.
; APPLICANT:Dotson, Stanton B.
; APPLICANT:Edgerton, Michael D
; APPLICANT:Heck, Gregory R.
; APPLICANT:Kovalic, David K.
; APPLICANT:La Rosa, Thomas J.
; APPLICANT:Lee, Gary
; APPLICANT:Liu, Jingdong
; APPLICANT:Lutfiyya, Linda L.
; APPLICANT:Nelson, Donald E.

```
; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52016)A
; CURRENT APPLICATION NUMBER: US/11/982,010
; CURRENT FILING DATE: 2008-10-18
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 10/438,246
; PRIOR FILING DATE: 2003-05-14
; PRIOR APPLICATION NUMBER: 10/155,881
; PRIOR FILING DATE: 2002-05-22
; PRIOR APPLICATION NUMBER: 09/816,660
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: 09/733,089
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: 09/565,306
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/132,860
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 10/424,599
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 09/985,678
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 09/304,517
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 09/874,708
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 60/211,750
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/684,016
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: 10/425,114
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 10/219,999
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/312,544
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 60/324,109
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 11/491,125
; PRIOR FILING DATE: 2006-08-24
; PRIOR APPLICATION NUMBER: 60/144,351
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/163,469
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: 60/177,203
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; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: 60/184,162
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 09/620,392
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1262
; LENGTH: 2513
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-982-010-1262

Query Match 2.5%; Score 82.5; DB 2; Length 2513;
Best Local Similarity 19.6%; Pred. No. 32;
Matches 106; Conservative 89; Mismatches 224; Indels 121; Gaps 27;

Qy 147 RLATTMTNHEKNERINRVIQELGL---DKVADSK-----VGTQFIRGVSGGERKRTSIG 197
| : | :: : ||: | : :: : : || |: | :: :
Db 1552 RAYSNMVRVQQLSELEEVIYYTLPVGNTIAEERRALIRNMWTQRIQ----GSKRNVEVW 1607

Qy 198 MELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIFSIIHQPRYSIFKLFDSL 257
|: :::: || :::: | | | | | | : :: ||
Db 1608 QALLAVRALVL--PPTEDVETWLKFASL-----CRKSGR-----ISQAKSTLLKLLPFDP 1655

Qy 258 LLASGRLMFMHGPAQEALGYFE---SAGYHCEAYNNPADFFLDIINGDSTAVALNREEDFK 314
:: : :||| | ||| : | | | | | | : : ::| : : |
Db 1656 EVSPENMQYHGPPQVMLGYLKYQWSLGE--ERKRKEAFTKLQILTRELSSVP-HSQSDIL 1712

Qy 315 ATEIIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKKITVFKEISYTTSF 374
|: :: : || || : : :: | | | | : :: : | |
Db 1713 AS-MVSSKGANVPL---LARVNLKLGTWQ-----WALSSGLNDGSIQEIRD-AFDKSTC 1761

Qy 375 HQLRWVSK---RSFKNLLGNPQASIAQIIIVTVVLGLVIGAIY-FGLKNDSTGIQNRAGV 429
: :| | : : | || | : | | | : : | : :
Db 1762 YAPKWAKAWHTWALFNTAVMSHYISRGQIASQYVVS AVTGYFYYSIACAANAKGVDDSLQD 1821

Qy 430 LFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVS SYFLGKLLSDLLPM-TMLPSII 488
: | | |: : :: | | | |: : | : :: |: : :: |: :
Db 1822 ILRLLT-LWFNHGATADVQTALKTGF SHVNINTWLVVLPQIIARIHSNNRAVRELIQSL 1880

Qy 489 FTCIVYFMLGLK-PKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLLMTICFVF 547
: | |:| : :| : : | | | | |
Db 1881 -----IRIGENHPQA-----LMYPLL VACKSISN--LRRAAAQEVVDK----- 1916

Qy 548 MMIFSGLLVNLTIIAS-----WLSWLQYFSIPRYG----- 577
: || |: : | | | : | : |
Db 1917 VRQHSGALVDQAQLVSHELIRVAILWHEMWHEALEEASRLYFGEHNIEGMLKVLEPLHDM 1976

Qy 578 -----FTALQHNEFLG-QNFCPG-----LNATGNNPCNYATCTGEEYLVKQGIDL 621
| :| |: || | | | | | | | : : | |
Db 1977 LDEGVKKDSTTIQERAFIEVGNFNPGFLAYRHELKEAHECCCN Y-KITGKDAELTQAWDL 2035

RESULT 10
US-11-982-274-1262
; Sequence 1262, Application US/11982274
; Publication No. US20090049573A1

; GENERAL INFORMATION
; APPLICANT: Adams, Thomas H
; APPLICANT:Dotson, Stanton B.
; APPLICANT:Edgerton, Michael D
; APPLICANT:Lee, Gary
; APPLICANT:Nelson, Donald E.
; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52596)A
; CURRENT APPLICATION NUMBER: US/11/982,274
; CURRENT FILING DATE: 2008-10-04
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1262
; LENGTH: 2513
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-982-274-1262

Query Match 2.5%; Score 82.5; DB 2; Length 2513;
Best Local Similarity 19.6%; Pred. No. 32;
Matches 106; Conservative 89; Mismatches 224; Indels 121; Gaps 27;

Qy 147 RLATTMTNHEKNERINRVIQELGL---DKVADSK-----VGTQFIRGVSGGERKRTSIG 197
| : | :: : ||: | : |: : : || |: | :: :
Db 1552 RAYSNMVRVQQLSELEEVIEWYYTLPVGNTIAEERRALIRNMWTQRIQ----GSKRNVEVW 1607

Qy 198 MELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIFSIIHQPRYSIFKLFDLSLT 257
|: :::: || :::: | | | | | | : :: ||
Db 1608 QALLAVRALVL--PPTEDVETWLKFASL-----CRKSGR-----ISQAKSTLLKLLPFDP 1655

Qy 258 LLASGRLMFHGPAQEALGYFE--SAGYHCEAYNNPADFFLDIINGDSTAVALNREEDFK 314
:: : :||| | ||| : | | | | | |: : ::| : : |
Db 1656 EVSPENMQYHGPPQVMLGYLKYQWSLGE--ERKRKEAFTKLQILTRELSSVP-HSQSDIL 1712

Qy 315 ATEIIIEPSKQDKPLIEKLAIEIYVNSSFYKETKAELHQLSGGEKKKKITVFKEISYTTSF 374
|: :: : || || : : :: || | | : :: : ||
Db 1713 AS-MVSSKGANVPL---LARVNLKLGTDWQ-----WALSSGLNDGSIQEIRD-AFDKSTC 1761

Qy 375 HQLRWVSK---RSFKNLLGNPQASIAQIIIVTVVLGLVIGAIY-FGLKNDSTGIQNRAGV 429
: :| | : : | || |: | | | : : |: :
Db 1762 YAPKWAKAWHTWALFNTAVMSHYISRGQIASQYVVS AVTGYFYSIACAANAKGVDDSLQD 1821

Qy 430 LFFLTNNQCFSSVSAVELFVVEKKLFIHEYISGYRVS SYFLGKLLSDLLPM-TMLPSII 488
: | | |: : :: | | | |: : | : :: |: : ::|::
Db 1822 ILRLLT-LWFNHGATADVQTALKTGFSHVNTWLVVLPQIIARIHSNNRAVRELIQSL 1880

Qy 489 FTCIVYFMLGLK-PKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLLMTICFVF 547
: | |: | : : |: : | | | | |


```
Db          1881  -----IRIGENHPQA-----LMYPLLVACKSISN--LRRAAAQEVVDK----- 1916

Qy          548  MMIFSGLLVNLTITAS-----WLSWLQYFSIPRYG----- 577
      :  || ||:  : |           |  |:  |  :|
Db          1917  VRQHS GALVDQAQLVSHELIRVAILWHEMWHEALEEASRLYFGEHNIEGMLKVLEPLHDM 1976

Qy          578  -----FTALQHNEFLG-QNFCPG-----LNATGNNPCNYATCTGEEYLVKQGIDL 621
      | :|  |:  || ||           |           |||  ||::  : |  ||
Db          1977  LDEGVKKDSTTIQERAFIEVGNFNPGFLAYRHELKEAHECCCN--KITGKDAELTQAWDL 2035
```

RESULT 11

```
US-12-135-071A-18
; Sequence 18, Application US/12135071A
; Publication No. US20090042254A1
; GENERAL INFORMATION
; APPLICANT: Dow Chemical
; APPLICANT:Retallack, Diane M
; APPLICANT:Mitchell, Jon C
; TITLE OF INVENTION: Expression of Soluble Antibody Fragment by Truncation of CH1 Domain
; FILE REFERENCE: 2971.01-8345US
; CURRENT APPLICATION NUMBER: US/12/135,071A
; CURRENT FILING DATE: 2008-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 479
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Chemically synthesized: Amino Acid Sequence Corresponding to Coding
region of pDOW3716
US-12-135-071A-18
```

```
Query Match          2.4%; Score 82; DB 3; Length 479;
Best Local Similarity 20.6%; Pred. No. 2.6;
Matches 73; Conservative 50; Mismatches 138; Indels 94; Gaps 20;
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Qy          80  GPTGG-----GKSSLLDV-LAARKDPS-----GLSGDVLINGA-----PRPANFK 118
      || |           |: : : | |: | ||           ||           |  |
Db          119  GPAGDAFDIWGQGTTTVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVS 178

Qy          119  CNSGYVVQDDVVMGTLTVRENLFSAALRLATTMT-----NHE-KNERIN 162
      ||| :           | |           || |           |:: :|           ||: | ::
Db          179  WNSGALTS-----GVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVD 233

Qy          163  RVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTAN 222
      : ::           |:           | |: |           ::           | |: | |: | :
Db          234  KRVEPKSCMKLKLRLMAAMTF---VAAGVATANAVA-----DIQMTQSPST-LSASIGD 282

Qy          223  AVLLLLLKR-----MSKQGRTIIFSIFQPRYSIFKLFDSLTLASGRLMFHGPAQ 271
      | : :           | |:           |: |:| ||           | |           |
Db          283  RVTITCRASEGIYHWLAWYQQKPGKA-----PKLLIYKA-SSLASGAPSRFSGSGSGT 334

Qy          272  E-----ALGYFESAGYHCEAYNN-PADFFLDIINGDSTAVALNREEDFKATEIIEPSKQ 324
      :           :| : | |:|: |:| | |           | |: : |           : | ||
Db          335  DFTLTISLQPDDEFATYYCQQYSNYPLTF-----GGGTKLEIKRAVAAPSVFIFPPS-- 386
```

Qy 325 DKPLIEKLAEI--YVNSSFYKETKAEL---HQLSGGEKKKKITV--FKEISYTTS 372
|: | : : : | : : | : : | : : |
Db 387 DEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLS 441

RESULT 12

US-11-982-010-1221

; Sequence 1221, Application US/11982010

; Publication No. US20090044297A1

; GENERAL INFORMATION

; APPLICANT: Adams, Thomas R

; APPLICANT:Andersen, Scott E.

; APPLICANT:Cao, Yongwei

; APPLICANT:Conner, Timothy W.

; APPLICANT:Dotson, Stanton B.

; APPLICANT:Edgerton, Michael D

; APPLICANT:Heck, Gregory R.

; APPLICANT:Kovalic, David K.

; APPLICANT:La Rosa, Thomas J.

; APPLICANT:Lee, Gary

; APPLICANT:Liu, Jingdong

; APPLICANT:Lutfiyya, Linda L.

; APPLICANT:Nelson, Donald E.

; APPLICANT:Wu, Jingrui

; APPLICANT:Xie, Zhidong

; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits

; FILE REFERENCE: 38-21(52016)A

; CURRENT APPLICATION NUMBER: US/11/982,010

; CURRENT FILING DATE: 2008-10-18

; PRIOR APPLICATION NUMBER: 10/678,588

; PRIOR FILING DATE: 2003-10-02

; PRIOR APPLICATION NUMBER: 60/415,758

; PRIOR FILING DATE: 2002-10-02

; PRIOR APPLICATION NUMBER: 60/425,157

; PRIOR FILING DATE: 2002-11-08

; PRIOR APPLICATION NUMBER: 60/463,787

; PRIOR FILING DATE: 2003-04-18

; PRIOR APPLICATION NUMBER: 10/310,154

; PRIOR FILING DATE: 2002-12-04

; PRIOR APPLICATION NUMBER: 60/337,358

; PRIOR FILING DATE: 2001-12-04

; PRIOR APPLICATION NUMBER: 10/438,246

; PRIOR FILING DATE: 2003-05-14

; PRIOR APPLICATION NUMBER: 10/155,881

; PRIOR FILING DATE: 2002-05-22

; PRIOR APPLICATION NUMBER: 09/816,660

; PRIOR FILING DATE: 2001-03-26

; PRIOR APPLICATION NUMBER: 09/733,089

; PRIOR FILING DATE: 2000-12-11

; PRIOR APPLICATION NUMBER: 09/565,306

; PRIOR FILING DATE: 2000-05-04

; PRIOR APPLICATION NUMBER: 60/132,860

; PRIOR FILING DATE: 1999-05-07

; PRIOR APPLICATION NUMBER: 10/424,599

; PRIOR FILING DATE: 2003-04-28

; PRIOR APPLICATION NUMBER: 09/985,678

; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 09/304,517
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 09/874,708
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 60/211,750
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/684,016
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: 10/425,114
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 10/219,999
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/312,544
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 60/324,109
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 11/491,125
; PRIOR FILING DATE: 2006-08-24
; PRIOR APPLICATION NUMBER: 60/144,351
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/163,469
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: 60/177,203
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: 60/184,162
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 09/620,392
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1221
; LENGTH: 513
; TYPE: PRT
; ORGANISM: Glycine max
US-11-982-010-1221

Query Match 2.4%; Score 82; DB 2; Length 513;
Best Local Similarity 18.9%; Pred. No. 2.9;
Matches 104; Conservative 69; Mismatches 144; Indels 234; Gaps 27;

Qy	90	LDVLAARKDPSGLSGDVLI-----NGAPRPANFKCNSGYVVQDDVVMGTLTVRENL	140
		:	
Db	16	LATLAHLLPSDATSAAAILHPHRLSAPTGDLPANLK-----GTLTV----	58
Qy	141	QFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMEL	200
		: : :: : : : ::	
Db	59	-----VDERTGKKYQ---IEVTPDGTVRASDFKKISSGKNDK---GLKL	96
Qy	201	ITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIFSIIHQPRYSIFKLFDSLTLA	260
		: : : : : :	
Db	97	Y-DPGYLNTAPVISRISYIDGDAGILRYR-----GYPIEDLAEKSTFTE	139
Qy	261	SGRLMFHG--PAQEALGYFESA-----GY	282
		: : : : : :	
Db	140	VSYLILYGNLPSESQLAWEFALSQHSAPVQGVLDMIESMPHDAHMPGMLVNAMSALSVF	199
Qy	283	HCEAYNNPADFFLDIINGDSTAVALNREEDFKATEIIIEPSKQ--DKPLIEKLAEIYVNSS	340

Db	200	HPDA--NPALKGLDIYN-----SKQVRDKQIARVIGKITTIAA	235
Qy	341	FYKETKAELHQLSGGEKKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQII	400
Db	236	-----AINLRLAG---RPPVLPSNKLSTENFLYMLDSFGNRSYK---PNPRLTRALDI	283
Qy	401	V-----TVVLGLVIGAIY---FGLKNDST-----G	422
Db	284	IFVLHAEHEMNCSSTSAVRHLSSSGVDVYTAIAG-AVGALYGPLHGGANEAVLKMLSEIGT	342
Qy	423	IQN-----RAGVLFFLTNTQCFSSVS---AVELFVVE	451
Db	343	VENIPAFIEGVKARKRKLSGFGHRVYKNYDPRAKVLRLK-TEEVFSIVGRDPLIEIAVAL	401
Qy	452	KKLFIHEYISGYRVSSYFLGKLLSDLLPMTMLPSI-IFTCIVYFMLGLKPKADAFFVMM	510
Db	402	EKIALSD-----EYFIKRKL-----YPNVDFYSGLIYRAMGFQPE---FFTVL	441
Qy	511	FTL-MMVAYSA	520
Db	442	FAIPRMAGYLA	452

RESULT 13

US-11-982-274-1221

; Sequence 1221, Application US/11982274
; Publication No. US20090049573A1
; GENERAL INFORMATION
; APPLICANT: Adams, Thomas H
; APPLICANT:Dotson, Stanton B.
; APPLICANT:Edgerton, Michael D
; APPLICANT:Lee, Gary
; APPLICANT:Nelson, Donald E.
; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52596)A
; CURRENT APPLICATION NUMBER: US/11/982,274
; CURRENT FILING DATE: 2008-10-04
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1221
; LENGTH: 513
; TYPE: PRT
; ORGANISM: Glycine max
US-11-982-274-1221

Query Match 2.4%; Score 82; DB 2; Length 513;
Best Local Similarity 18.9%; Pred. No. 2.9;

Matches	104;	Conservative	69;	Mismatches	144;	Indels	234;	Gaps	27;
Qy	90	LDVLAARKDPSGLSGDVLI-----NGAPRPANFKCNSGYVVQDDVVMGTLTVRENL	140						
		:							
Db	16	LATLAAHLLPSDATSAAAILHPHRLSAPTGDLPPANLK-----GTLTV----	58						
Qy	141	QFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMEL	200						
		:		:		:	:	:	:
Db	59	-----VDERTGKKYQ---IEVTPDGTVRASDFKKISSGKNDK---GLKL	96						
Qy	201	ITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIFSIIHQPRYSIFKLFDSTLLA	260						
		:		:	:	:	:		
Db	97	Y-DPGYLNTAPVISRISYIDGDAGILRYR-----GYPIEDLAEKSTFTE	139						
Qy	261	SGRLMFHG--PAQEALGYFESA-----GY	282						
		: : :: :					:		
Db	140	VSYLILYGNLPSESQLAWEFALSQHSAPVQGVLDMIESMPHDAHMPGMLVNAMSALSVF	199						
Qy	283	HCEAYNNPADFFLDIINGDSTAVALNREEDFKATEIIIEPSKQ--DKPLIEKLAEIYVNSS	340						
		:		:		:	:	:	:
Db	200	HPDA--NPALKGLDIYN-----SKQVRDKQIARVIGKITTIAA	235						
Qy	341	FYKETKAELHQLSGGEKKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQII	400						
		: :		:	:	:	: :		: :
Db	236	-----AINLRLAG---RPPVLPSNKLSTENFLYMLDSFGNRSYK---PNPRLTRALDI	283						
Qy	401	V-----TVVLGLVIGAIY---FGLKNDST-----G	422						
		:		: : :		::			
Db	284	IFVLHAEHEMNCSTSAVRHLSSSGVDVYTAIAG-AVGALYGPLHGGANEAVLKMLSEIGT	342						
Qy	423	IQN-----RAGVLFFLTNNQCFSSVS---AVELFVVE	451						
		:		:		:	:	:	:
Db	343	VENIPAFIEGVKARKRKLSGFGHRVYKNYDPRAKVLRLK-TEEVFSIVGRDPLIEIAVAL	401						
Qy	452	KKLFIHEYISGYRVSYSYFLGKLLSDLLPMTMLPSI-IFTCIVYFMLGLKPKADAFFVMM	510						
		: : : :		: :		:: : : :	:	: : :	
Db	402	EKIALSD-----EYFIKRKL-----YPNVDFYSGLIYRAMGFQPE---FFTVL	441						
Qy	511	FTL-MMVAYSA	520						
		:							
Db	442	FAIPRMAGYLA	452						

RESULT 14

US-12-169-527-2468

; Sequence 2468, Application US/12169527

; Publication No. US20090049566A1

; GENERAL INFORMATION

; APPLICANT: Mendel Biotechnology, Inc.

; APPLICANT:ZHANG, James

; APPLICANT:HEMPEL, Frederick D

; APPLICANT:ADAM, Luc

; APPLICANT:PALYS, Joseph M

; TITLE OF INVENTION: IMPROVEMENT OF PLANT QUALITY WITH VARIOUS PROMOTERS

; FILE REFERENCE: MBI-0070-2CIP

; CURRENT APPLICATION NUMBER: US/12/169,527

; CURRENT FILING DATE: 2008-07-08

; NUMBER OF SEQ ID NOS: 10667
; SOFTWARE: PatentIn version 3.5
; SEQ ID NO 2468
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: G4631,bZIP domain coordinates 192-204,234-313
US-12-169-527-2468

Query Match 2.4%; Score 81.5; DB 3; Length 322;
Best Local Similarity 21.7%; Pred. No. 1.6;
Matches 44; Conservative 32; Mismatches 94; Indels 33; Gaps 8;

Qy 15 GNTNGFPATASNDLKAFTEGAVLSFHNICYRVKL-----KSGFLPCRKPVE-KEI 63
|:| | ||: |: : || :| |: | :: | :||
Db 43 GDTIGL--TATGDVVFVACHECGFPLCHSCYEYELKHMSQSCPQCKTAF TSHQEGAEVEEI 100

Qy 64 LSNINGIMKPLNAILGPTGGGKSSLL-----DVLAARKDP SGLSGDVLINGAPRPANFK 118
: : :| | |: | |: :: | : | || | |
Db 101 DMMTDAYLDNEIN--YGQGNSSKAGMLWEEDADLSSSSGHDSQIPNPHLANGQPM SGEFP 158

Qy 119 CNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKV----- 173
| | | | :: :: : : | :| ||| |:| :
Db 159 C----ATSDAQSMQTTSIGQSEKVHSLSYADPKQPGPESDEEIRRV-PEIGGESAGTSAS 213

Qy 174 ---ADSKVGTQFIRGVSGGERKR 193
| | ||: ::| |::||
Db 214 QPDAGSNAGTERVQGTGEGQKKR 236

RESULT 15

US-11-982-010-1636
; Sequence 1636, Application US/11982010
; Publication No. US20090044297A1
; GENERAL INFORMATION
; APPLICANT: Adams, Thomas R
; APPLICANT:Andersen, Scott E.
; APPLICANT:Cao, Yongwei
; APPLICANT:Conner, Timothy W.
; APPLICANT:Dotson, Stanton B.
; APPLICANT:Edgerton, Michael D
; APPLICANT:Heck, Gregory R.
; APPLICANT:Kovalic, David K.
; APPLICANT:La Rosa, Thomas J.
; APPLICANT:Lee, Gary
; APPLICANT:Liu, Jingdong
; APPLICANT:Lutfiyya, Linda L.
; APPLICANT:Nelson, Donald E.
; APPLICANT:Wu, Jingrui
; APPLICANT:Xie, Zhidong
; TITLE OF INVENTION: Transgenic Plants with Enhanced Agronomic Traits
; FILE REFERENCE: 38-21(52016)A
; CURRENT APPLICATION NUMBER: US/11/982,010
; CURRENT FILING DATE: 2008-10-18
; PRIOR APPLICATION NUMBER: 10/678,588
; PRIOR FILING DATE: 2003-10-02

; PRIOR APPLICATION NUMBER: 60/415,758
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/425,157
; PRIOR FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: 60/463,787
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: 60/337,358
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 10/438,246
; PRIOR FILING DATE: 2003-05-14
; PRIOR APPLICATION NUMBER: 10/155,881
; PRIOR FILING DATE: 2002-05-22
; PRIOR APPLICATION NUMBER: 09/816,660
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: 09/733,089
; PRIOR FILING DATE: 2000-12-11
; PRIOR APPLICATION NUMBER: 09/565,306
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/132,860
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 10/424,599
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 09/985,678
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 09/304,517
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 09/874,708
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: 60/211,750
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 09/684,016
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: 10/425,114
; PRIOR FILING DATE: 2003-04-28
; PRIOR APPLICATION NUMBER: 10/219,999
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/312,544
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 60/324,109
; PRIOR FILING DATE: 2001-09-21
; PRIOR APPLICATION NUMBER: 11/491,125
; PRIOR FILING DATE: 2006-08-24
; PRIOR APPLICATION NUMBER: 60/144,351
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/163,469
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: 60/177,203
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: 60/184,162
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 09/620,392
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 1962
; SEQ ID NO 1636
; LENGTH: 325

; TYPE: PRT
; ORGANISM: Zea mays
US-11-982-010-1636

Query Match 2.4%; Score 81.5; DB 2; Length 325;
Best Local Similarity 24.3%; Pred. No. 1.6;
Matches 41; Conservative 23; Mismatches 56; Indels 49; Gaps 9;

Qy	119	CNSGYVVQDDVVMGTLTV-----RENLQFSAALRLATTMTNHEKNERINRVIQEL	168
		:: : : : :: :: :	
Db	28	CNDGFIQEISEMGGILNTYGLIEPDFEERRARRFGMMDAMSSLMRQR-----MEEM	78
Qy	169	GLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLL	228
		: : :: : :	
Db	79	GRDGLFD-----IRGRQG---TGTEYGRRPTAVPTLVFGGIPSPGVDSGDVNVVL---	125
Qy	229	KRMSKQGRTIIFSIHQPRY-----SIFKLFDSLTL LASGRLMFHGPA	270
		: : : : :	
Db	126	----RGGRRV--GAAQPNFSSLVVGPSLEALFEQL-LLQNNR---QGPA	164

Search completed: March 3, 2009, 04:35:44
Job time : 3 secs

SCORE 1.0